PRODUCT DATA SHEET

T4-784-T100

# Monoclonal Antibody to CD235a APC-Cy™7 conjugated (100 tests)

**Clone:** JC159

**Isotype:** Mouse IgG1

**Specificity:** The mouse monoclonal antibody JC159 recognizes an epitope between amino acids 27 and 40 of the extracellular portion of CD235a (glycophorin A), a sialoglycoprotein expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and the cells of erythroid cell lines K562 and HEL. The antibody does not react with glycophorin B.

**Regulatory Status:** RUO

**Immunogen:** Membrane preparation from splenic hairy cell leukemia

**Species Reactivity:** Human, Rat

**Preparation:** The purified antibody is conjugated with tandem dye APC-Cy™7 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

**Storage Buffer:** The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.

**Storage / Stability:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

**Usage:** The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or $10^6$ cells in a suspension.
The content of a vial (0.4 ml) is sufficient for 100 tests.

**Expiration:** See vial label

**Lot Number:** See vial label

**Background:** CD235a (Glycophorin A, GPA) is a transmembrane sialoglycoprotein expressed on erythrocytes and their precursors. Similarly to glycophorin B (GPB), these molecules provide the cells with a large mucin-like surface, which minimalizes aggregation between erythrocytes in the circulation. GPA is the carrier of blood group M and N specificities, while GPB accounts for S, s and U specificities. CD235a is a receptor of Hsa, an Streptococcus adhesin.

**References:**

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**For laboratory research only, not for drug, diagnostic or other use.**

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